

# Comparisons of Job Characteristics

**Focus Occupation:** Computer and Information Systems Managers (11-3021)

**Associated Occupation:** Database Administrators (15-1061)

[Compare Knowledge](#)

[Compare Skills](#)

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[Compare Detailed Work Activities](#)

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<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

**Focus Occupation:** Computer and Information Systems Managers (11-3021)

**Associated Occupation:** Database Administrators (15-1061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	19.9	20.0	0 Current knowledge level may be sufficient
Customer and Personal Service	11.3	14.2	15.7	> Current knowledge level is likely sufficient
Clerical	7.3	10.9	8.9	< Expanded education and/or training may be required
Communications and Media	5.3	8.0	6.6	< Expanded education and/or training may be required
Telecommunications	3.9	7.3	10.9	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 82

**Focus Occupation:** Computer and Information Systems Managers (11-3021)

**Associated Occupation:** Database Administrators (15-1061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Systems Analysis	6.5	10.6	10.8	0 Current skill level may be sufficient
Systems Evaluation	6.4	10.4	12.2	> Skill level is likely sufficient
Programming	2.2	9.9	6.9	<< Extensive development of skills in this area may be required
Operations Analysis	5.0	9.6	9.6	0 Current skill level may be sufficient
Technology Design	2.6	6.1	5.9	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Computer and Information Systems Managers (11-3021) Associated Occupation: Database Administrators (15-1061)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Information Ordering	9.9	12.3	12.3	0	Current ability level may be sufficient
Category Flexibility	9.0	11.0	10.2	0	Current ability level may be sufficient
Flexibility of Closure	7.8	10.1	8.2	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	9.9	10.1	0	Current ability level may be sufficient
Originality	7.6	9.8	10.1	0	Current ability level may be sufficient
Selective Attention	8.7	9.8	9.5	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	9.7	7.7	<	Some improvement in abilities may be required
Number Facility	6.3	8.9	7.5	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Computer and Information Systems Managers (11-3021) Associated Occupation: Database Administrators (15-1061)		
Work Activities	Exclusivity of Activity	
Develop computer performance standards	87	
Estimate time needed for project	64	
Evaluate computer system user requests or requirements	81	
Follow data security procedures	77	
Follow data storage procedures	75	
Plan computer security measures	95	
Revise or correct errors in computer programs, software, or systems	85	
Test computer programs or systems	78	
Use computer application flow charts	84	
Use computer programming language	82	
Use project management techniques	47	
Work as a team member	36	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 82

**Focus Occupation: Computer and Information Systems Managers (11-3021)**  
**Associated Occupation: Database Administrators (15-1061)**

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Media storage devices	21
Network applications software	1
Networking software	21
Operating environment software	12
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.